

AMENDMENTS

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A recording apparatus comprising:

recording means for recording a first data set in a recording medium;
input means for a user to designate a file name corresponding to designating a start point and an end point of a desired second continuous data set, wherein said second continuous data set is a subset of said first data set to be recorded in or already recorded in said recording medium by said recording means; and

control means, for controlling said recording means so as to endlessly-record and overwrite a non-designated portion of said first data in said recording medium which excludes said designated second continuous data set, such that the recording means endlessly records data in the recording medium in a recording region that avoids the recording region in which said second data has been recorded.

Claim 2 (original): The recording apparatus according to claim 1, wherein said recording medium is a recording medium capable of non linear access.

Claim 3 (original): The recording apparatus according to claim 1, further comprising:

reproducing means for reproducing said first data recorded in said recording medium, wherein;

said start point and end point of said desired second data are input by input means from said first data reproduced by said reproducing means.

Claim 4 (original): The recording apparatus according to claim 3, wherein:

said reproducing means reproduces said first data recorded in said recording medium after a passage of a predetermined time in order of recording said first data in said recording medium.

Claim 5 (original): The recording apparatus according to claim 1, wherein:

said control means, when said recording means is controlled so as to endless-record said data in said recording medium, endless-records said first data in a first region of said recording medium, and when said start point and end point of said second data are input through said input means, controls said recording means so as to endless-record said first data in said first region while avoiding a predetermined second region out of said first region of said recording medium.

Claim 6 (original): The recording apparatus according to claim 1, wherein:

said control means controls said recording means so as to record said first data in a first region of said recording medium, and controls said recording means so as to generate assisting data for identifying said first data and record the assisting data in a second region different from said first region of said recording medium.

Claim 7 (original): The recording apparatus according to claims 1 and 3, wherein said controls means controls said recording means so as to record said first data in a first region of said recording medium;

controls said recording means so as to generate assisting data for identifying said first data and record the assisting data in a second region different from said first region of said recording medium; further controls said reproducing means so as to reproducing said assisting data recorded in said second region of said recording medium when reproducing said first data by said reproducing means; and

when said start point and end point of said second data are input by said input means, controls said recording means so as to generate said assisting data corresponding to said start point and end point and record said assisting data in said second region of said recording medium.

Claim 8 (original): The recording apparatus according to claim 6 and/or claim 7, wherein:

said assisting data comprises a file name corresponding to said first and/or second data, a time code added to said first and/or second data, and a head address of said recording medium in which said first and/or second data are recorded.

Claim 9 (currently amended): A recording/reproducing apparatus for recording input data in a recording medium capable of non linear access, and reproducing and outputting the recorded data, comprising:

recording means for recording first data in said recording medium;

input means for a user to designate a file name corresponding to designating a start point and an end point of desired second continuous data, wherein said second continuous data is a subset of said first data to be recorded or already recorded in said recording medium by said recording means;

control means, for controlling said recording means so as to endlessly-record and overwrite a non-designated portion of said first data in said recording medium excluding said second continuous data, such that data is endlessly recorded in a region of said recording medium that avoids the region of said recording medium in which said second continuous data has been recorded; and

reproducing means for reproducing and outputting said first data recorded in said recording medium.

Claim 10 (original): The recording/reproducing apparatus according to claim 9, wherein:

the start point and end point of said desired second data are input by said input means from said first data reproduced by said reproducing means.

Claim 11 (original): The recording/reproducing apparatus according to claim 9, wherein:

said reproducing means reproduces said first data recorded in said recording medium after a passage of a predetermined time in order of recording said first data in said recording medium.

Claim 12 (previously presented): The recording/reproducing apparatus according to claim 9, wherein:

said control means, when controlling said recording means so as to endlessly-record said first data in said recording medium, endlessly-records said first data in a first region of said recording medium, and when said start point and end point of said second data are input through said input means, controls said recording means so as to endlessly-record said first data in said first region while avoiding a predetermined second region out of said first region of said recording medium (endlessly-recording in a predetermined region on a HD).

Claim 13 (original): The recording/reproducing apparatus according to claim 9, wherein:

 said control means controls said recording means so as to record said first data in a first region of said recording medium, and controls said recording means so as to generate assisting data for identifying said first data and record the assisting data in a second region different from said first region of said recording medium (recording in a predetermined region of a file system HD).

Claim 14 (original): The recording/reproducing apparatus according to claim 9, wherein:

 said control means controls said recording means so as to record first data in a first region of said recording medium; controls said recording means so as to generate assisting data for identifying said first data and record the assisting data in a second region different from said first region of said recording medium; further controls said reproducing means so as to reproduce said assisting data recorded in said second region of said recording medium when said first data is reproduced by said reproducing means; and when said start point and end point of said second data are input by said input means, controls said recording means so as to generate said assisting

data corresponding to said start point and end point and record said assisting data in said second region of said recording medium (file system renewal).

Claim 15 (previously presented): The recording/reproducing apparatus according to claims 13 or 14, wherein:

 said assisting data comprises a file name corresponding to said first and/or second data, a size of said first and/or second data, a time code added to said first and/or second data, and a head address of said recording medium in which said first and/or second data are recorded (contents of file system).

Claim 16 (currently amended): A recording method for recording input first data in a recording medium capable of non linear access, comprising:

 endlessly-recording said first data in said recording medium and designating by a user a file name corresponding to a start point and/or end point of desired second continuous data, wherein said second continuous data is a subset of said first data to be recorded or already recorded in said recording medium; and

 endlessly-recording and overwriting a non-designated portion of said first data in said recording medium that excludes said designated second continuous data by recording said data in a region of said recording medium that does not include a recording region in which said second continuous data corresponding to said start point and/or end point out of said first data has been recorded.

Claim 17 (previously presented): The recording method according to claim 16, wherein:

said step of endlessly-recording said first data in said recording medium comprises the step of reproducing said first data endlessly-recorded in said recording medium, and inputting said start point and end point of said desired second continuous data from said reproduced first data.

Claim 18 (previously presented): The recording method according to claim 17, wherein:

 said step of endlessly-recording said first data in said recording medium comprises the step of reproducing said endlessly-recorded first data after a passage of a predetermined time, and inputting said start point and/or end point of said desired second continuous data from said reproduced first data.

Claim 19 (previously presented): The recording method according to claim 16, wherein:

 said step of endlessly-recording said first data comprises endlessly-recording said first data in a first region of said recording medium; and

 when said start point and/or end point of said desired second continuous data are/is input, endlessly-recording said first data in said region while avoiding a second continuous region of said recording medium in which said second continuous data corresponding to said start point and/or end point out of said first data has been recorded.

Claim 20 (previously presented): The recording method according to claim 16, wherein:

 said step of endlessly-recording said first data in said first region of said recording medium, includes generating assisting data for identifying said first data, and recording the

assisting data in a second continuous region different from said first region of said recording medium.

Claim 21 (previously presented): The recording method according to claim 16, wherein:

 said step endlessly-recording said first data in a first region of said recording medium, includes generating assisting data for identifying said first data, which is recorded in a second region different from said first region of said recording medium, and further, when reproducing said first data, reproducing said assisting data recorded in said recording medium; and

 when said start point and/or end point of said desired second data are/is input, generating said assisting data corresponding to said start point and/or end point, and recording said assisting data in said second region medium.

Claim 22 (previously presented): The recording method according to claim 20, wherein:

 said assisting data comprises a file name corresponding to said first and/or second data, a time code added to said first and/or second data, and a head address of said recording medium in which said first and/or second data has been recorded.

Claim 23 (currently amended): A recording/reproducing method for recording input data in a recording medium capable of non linear access, and reproducing and outputting the recorded data, comprising the steps of:

 endlessly-recording input data in said recording medium, and designating by a user a file name corresponding to a start point and/or end point of desired second continuous data, wherein

said second continuous data is a subset of first data to be recorded or already recorded in said recording medium;

endlessly-recording and overwriting a non-designated portion of said first data in said recording medium by recording said data in a region of said recording medium that does not include a continuous second recording region of said recording medium in which second continuous data corresponding to said start point and/or end point out of said first data has been recorded; and

reproducing and outputting said first data recorded in said recording medium.

Claim 24 (original): The recording/reproducing method according to claim 23, wherein:
said start point and/or end point of said desired second data are/is input at said first step from said first data reproduced at said third step.

Claim 25 (previously presented): The recording/reproducing method according to claim 24, wherein:

said step of reproducing said first data endlessly-recorded in said recording medium includes reproducing said first data endlessly recorded in said recording medium after passage of a predetermined time, and inputting said start point and/or end point of said desired second continuous data from said reproduced first data.

Claim 26 (previously presented): The recording/reproducing method according to claim 23, wherein:

said step of endlessly-recording includes endlessly-recording said first data in a first region of said recording medium; and

 when said start point and/or end point of said desired second continuous data are/is input, endlessly-recording said first data in said first region while avoiding said continuous second region of said recording medium in which said second data corresponding to said start point and/or end point out of said first data has been recorded (endlessly-recording in a predetermined region of HD).

Claim 27 (previously presented): The recording/reproducing method according to claim 23, wherein:

 said step of endlessly-recording said first data in a first region of said recording medium includes, generating assisting data for identifying said first data, and recording the assisting data in a second region different from said first region of said recording medium (recording in a predetermined region of file system HD).

Claim 28 (previously presented): The recording/reproducing method according to claims 23, wherein:

 said step of endlessly-recording said first data in a first region of said recording region includes, generating assisting data for identifying said first data, which is recorded in a second region different from said first region of said recording medium, and further, when said first data is reproduced, reproducing said assisting data recorded in said recording medium; and

when said start point and/or end point of said desired second continuous data are/is input, generating said assisting data corresponding to said start point and/or end point and recording said assisting data in said second region of said recording medium (file system renewal).

Claim 29 (previously presented): The recording/reproducing method according to claim 27, wherein:

said assisting data comprises a file name corresponding to said first and/or second continuous data, a time code added to said first and/or second data, and a head address of said recording medium in which said first and/or second data has been recorded.

Claim 30 (previously presented): The recording apparatus to claim 7, wherein:

said assisting data comprises a file name corresponding to said first and/or second continuous data, a time code added to said first and/or second continuous data, and a head address of said recording medium in which said first and/or second data are recorded.

Claim 31 (previously presented): The recording method according to claim 21, wherein:

said assisting data comprises a file name corresponding to said first and/or second continuous data, a time code added to said first and/or second continuous data, and a head address of said recording medium in which said first and/or second continuous data has been recorded.

Claim 32 (previously presented): The recording/reproducing method according to claim 28, wherein:

said assisting data comprises a file name corresponding to said first and/or second continuous data, a time code added to said first and/or second continuous data, and a head address of said recording medium in which said first and/or second continuous data has been recorded.